Author Index, Volume 14

Ailstock, M. S., 57
Ambrose, D. A., 465
Antrim, B. S., 465

Barry, J. P., 465
Bianchi, T. S., 65
Bokuniewicz, H. J., 237
Broome, S. W., 175
Brown, B. W., 489
Brown, D. W., 299

Cailliet, G. M., 465
Calabrese, A., 318
Chabreck, R. H., 107, 489
Chain, S-L., 299
Choromanski, J., 332
Cifuentes, L. A., 414
Clark, R. C., 299
Cooke, T. J., 57
Craft, C. B., 175

Dame, R., 130
Dankers, N., 130
Day, J. W., Jr., 382
Deegan, L. A., 440
DeLaune, R. D., 17
Dell, D. A., 107
Domotor, S. L., 148
Donderski, W., 495

Eller, F. C., 265
Emerson, C. W., 361

Farrow, D. R. G., 224
Findlay, S., 65
Fleming, W. J., 57
Fox, A. M., 404

Gardner, W. S., 157, 167
Getsinger, K. D., 404
Gottholm, B. W., 290
Gould, E., 318
Greig, R., 318, 332
Grimes, D. J., 345
Gronlund, W. D., 299
Gross, M. F., 180

Hales, L. S., 199
Haller, W. T., 404
Hamilton, R. B., 107
Hardisky, M. A., 180
Hartwell, S. I., 218
Hebert, A. T., 306
Hess, T. J., 489
Hicks, R. E., 430
Hughes, J. B., 306
Hurley, D. H., 199

Jimenez, J. A., 49
Jongsma, H., 130

Kim, B-H., 237
Kim, S-Y., 395
Kitchens, W. M., 192
Klemas V., 180
Krahn, M. M., 299
Krairapanond, N., 17
Kuo, A. Y., 113
Kuropat, C., 318

Landahl, J. T., 299
Larsen, I. L., 148
Latham, P. J., 192
Lee, C., 430
Levin, L. A., 1

Malczyk, J. M., 157
Mallin, M. A., 481
Marinucci, A. C., 430
Martin, R. P., 107
McCain, B. B., 299
McKenzie, P. M., 107
McLean, R. I., 148
Mercaldo-Allen, R., 318
Merino, M., 372
Miller, J., 332
Miller, J. E., 318
Monahan, R., 224
Moustafa, M. Z., 113
Moy, L. D., 1
Mudryk, Z., 495
Myers, M. S., 299

Nelson, D., 318, 332

O'Connor, T. P., 279
O'Reilly, J. E., 248
Olsen, C. R., 148
Otto, R. G., 218

Park, K., 113
Parker, C. A., 248
Patrick, W. H., Jr., 17
Pearlstine, G. L., 192
Perry, D. M., 306
Portnoy, J. W., 122
Prins, T., 130

Reyes, E., 372
Robertson, A., 224, 290
Rootes, W. L., 489
Rulifson, R. A., 447
Rusanowsky, D., 318

Saucerman, S. E., 440
Sauter, K., 49
Seitzinger, S. P., 157, 167
Seneca, E. D., 175
Sennefelder, G., 318, 332
Skrabal, S. A., 29
Smaal, A., 130
Spratt, A. K., 167
Stacey, P. E., 224
Stein, J. E., 299
Stern, M. K., 382
Stiles, S., 332
Summers, J. K., 148

Teague, K. G., 382
Thurberg, F. P., 318
Tsai, C-F., 207
Turgeon, D. D., 279, 290
Turner, R. E., 139

Varanasi, U., 299

Wells, J. T., 395
Welsh, B. L., 265
Wilson, H., 148
Wolf, P. L., 180
Wolfe, D. A., 224, 290
Wright, V. L., 489

Yoklavich, M. M., 465

© 1991 Estuarine Research Federation

0160-8347/91/040501-01$01.50/0

Estuaries Vol. 14, No. 4, p. 502–504 December 1991

Subject Index, Volume 14

Acantharchus pomotis, 447
Acanthophora, 74
Acartia tonsa, 481
accretion, 148
Achromobacter, 495
Acinetobacter, 345
Aeromonas, 345
aging of fish, 199
Alcaligenes, 495
aldrin, 279
Alligator mississippiensis, 489
Alosa aestivalis, 447
Alosa pseudoharengus, 447
Alosa sapidissima, 447
American alligators, 489
amino acids, 430
ammonium, 130, 167, 382
ammonium flux, 157
ammonium sorption, 167
Amphistichus argenteus, 465
Anchoa compressa, 80
Anchoa hepsetus, 447
Anchoa mitchilli, 447
Anguilla rostrata, 447
anoxia, 122
anthracene, 279
anthropogenic contamination, 299
aquatic angiosperm, 57
aromatic hydrocarbons, 299
Artedius sp., 80
Artemia salina, 207
Atchafalaya River, Louisiana, 382
Atherinops affinis, 80, 465
Atherinopsis californiensis, 465
Atlantic silverside, 218
attenuation of light, 395
Avicennia bicolor, 49
axenic culture, 57

Bacillus, 495
bacteria, 345
Bairdiella chrysoura, 199, 447
Barataria Basin, Louisiana, 17
Barnegat Bay, New Jersey, 157, 167
beach seine, 465
beam transmission, 395
bedload model, 361
bedload transport, 361
belowground biomass, 180
Bennett Slough, California, 465
benthic oceanography, 361
benz(a)anthracene, 279
benzo(a)pyrene, 279
biochemical oxygen demand, 224
biomass estimates, 180
bivalve mollusc, 290
Bojorquez Lagoon, 372
bottom oxygen, 265
bottom water, 113
Brevoortia tyrannus, 447
brine shrimp, 207

cadmium, 290
Cancun, Mexico, 372
Caranx hippos, 447
carbon measurements, 175
carotenoid, 65
cation exchange, 157
cesium-134, 148
cesium-137, 148
chemical contamination, 279, 299
Chesapeake Bay, Virginia, 29, 113, 148
chlordane, 290
chlorinated hydrocarbon(s), 224, 279
chlorophyll *a*, 130, 481
chlorophyll *c*, 65
chromosome damage, 299
circulation, 38
Citharichthys stigmaeus, 465
clay mineral, 29
Clevelandia ios, 80, 465
Clostridium, 345
Clupea pallasii, 465
community structure, 481
Conowingo Reservoir, 148
contaminant levels, 290
copepod(s), 207, 481
coprostanol, 279
Costa Rica, 49
critical swimming, 218
cross-channel movement, 440
Cryptotis parva, 107
Crystal River, Florida, 404
current, 38
Cymatogaster aggregata, 465
Cynoscion nebulosus, 447
Cynoscion regalis, 447
Cyprinodon variegatus, 447
Cyprinus carpio, 447
cytogenetics, 332
cytological abnormalities, 332
cytotoxicity, 299

daily ration, 94
Damalichthys vacca, 465
decomposition, 65
deltaic processes, 139
Delaware Estuary, 414
denitrification, 167
deposit, 1
deposition, 237
destratification, 38
dichlorodiphenyldichloroethane, 279
dichlorodiphenyldichloroethene, 279
dichlorodiphenyltrichloroethane, 279, 290
diel dynamics, 372
diel variations, 94
dieldrin, 279
diked marshes, 122
Dills Creek, North Carolina, 1
dispersion coefficient, 38

dissolved oxygen, 113, 248, 265, 372
Distichlis spicata, 17
Diurnal Curve Method, 372
DNA damage, 299
Dorosoma cepedianum, 447
Dorosoma petenense, 465
drainage basin, 224
dye studies, 404

Elkhorn Slough, California, 465
Elops saurus, 447
Embiotoca jacksoni, 465
emergent aquatic vegetation, 65
Engraulis mordax, 465
Enterobacter, 345
Enterobacteriaceae, 495
erythrocyte micronuclei, 299
Esox niger, 447
estimating organic carbon, 175
Eurytemora affinis, 207
eutrophication, 265, 372

faunal transport, 361
fecal califorms, 224
feeding, 207
feeding ecology, 94
fickian diffusion, 157
finfish, 447
fish assemblages, 465
fish embryo culture, 318
fish kills, 122
fisheries, 74, 80, 94, 199, 207, 440, 447, 465
Flavobacterium, 345
Flavobacterium-Cytophaga, 495
flooding gradient, 49
flushing, 122
flux, 130
freshwater discharge, 38
freshwater marsh vegetation, 489
fucoxanthin, 65
fulvous harvest mice, 107
Fundulus diaphanus, 447
Fundulus heteroclitus, 1, 447
Fundulus majalis, 447
Fundulus parvipinnis, 80
Fundulus sp., 447

Gambusia affinis, 80, 447
Gillichthys mirabilis, 80
Girella nigricans, 80
Gobiidae, 465
Gobiosoma bosci, 447
gonad development, 332
Graceleria, 74
gravitational circulation, 38, 113
Great Sippewissett Marsh, Massachusetts, 430
Gulf of Mexico, 139
gut contents, 94
gut fullness, 94

© 1991 Estuarine Research Federation

0160-8347/91/040502-03$01.50/0

haemolymph, 102
Halifax Harbour, Nova Scotia, 361
Halodule wrightii, 74
halophilic bacteria, 495
hard clam, 332
heavy metals, 224, 279, 290, 299
heptachlor, 279
Herring River, Massachusetts, 122
histopathological conditions, 299
Hudson Estuary, 65
human disease, 345
Hydrilla verticillata, 404
hydrologic disturbances, 80
Hyperprosopan anale, 465
Hyperprosopan argenteum, 465
hypoxia, 113, 122, 265
Hypsoblennius gentilis, 80
Hypsoblennius gilberti, 80
Hypsoblennius jenkinsi, 80
Hypsopsetta guttulata, 80, 465

ichthyofauna, 465
Ictalurus catus, 447
Ictalurus nebulosus, 447
illite, 29
Ilypnus gilberti, 80
Indian River, Florida, 74
industrial wastes, 414
infaunal invertebrates, 299
infectious disease, 345
intertidal sandflats, 361
ion pairing, 157
Isochrysis galbana, 207

James River estuary, 29
Juncus romerianus, 17

Kjeldahl digestion, 175
Kjeldahl nitrogen, 382
Klebsiella, 345

Lagodon rhomboides, 447
Lake Gardno estuary, Poland, 495
Lake Michigan, 157
land-use, 224
larvae development, 318
lead, 290
lead-210, 148
least shrew, 107
Legionella, 345
Leiostomus xanthurus, 94, 447
Lepidogobius lepidus, 80, 465
Lepisosteus osseus, 447
Lepomis cyanellus, 447
Lepomis gibbosus, 447
Lepomis macrochirus, 447
Lepomis microlophus, 447
Lepomis sp., 447
Leptocottus armatus, 80, 465
levee habitats, 107
lignin, 414
lindane, 279
Listeria, 345
litter decomposition, 430
Long Island Sound, 224, 237, 248, 265, 279, 290, 299, 318, 332
Los Penasquitos Lagoon, California, 80
Loxothylacus panopaei, 102
Lucania parva, 447

macrobenthic, 80
macroinvertebrates, 80
macrophyte, 57, 65
Malaysian mangrove, 38
Manayunkia aestuarina, 1
mangrove, 38, 49
marsh creation, 1
marsh rice rats, 107
Menidia beryllina, 447
Menidia menidia, 207
Mercenaria mercenaria, 332
mercury, 224, 279, 290, 299
Mexican Caribbean, 372
microbial metabolism, 495
microcosm, 65
Microgobius thalassinus, 447
Micrometrus minimus, 465
Micropogonias undulatus, 447
Micropterus salmoides, 447
mineralization, 157
mirex, 279
mitigation, 1
Morone americanus, 447
Morone saxatilis, 207, 447, 465
Mosquito Lagoon, Florida, 74
Mugil cephalus, 80, 447
Mugil curema, 447
multiple gear types, 447
Mus musculus, 107
mussel beds, 130
mussels, 290
Mustelus californicus, 465
Mya arenaria, 361
Myliobatis californica, 465

naphthalene, 279
National Status and Trends Program, 290
Neoclinus uninotatus, 465
net fluxes, 382
Neuse River, North Carolina, 102, 395, 481
Newport River, North Carolina, 102
nitrate, 382
nitrification, 157, 167
nitrogen cycle, 157
nitrogen measurements, 175
nitrogen release, 157
nonpoint, 224
North Inlet, South Carolina, 94
Notemigonus crysoleucus, 447
nutrient recycling, 167
nutrient transport, 382
nutrients, 130

Ochlockonee River, 157
Oithona colcarva, 481
oligohaline marsh, 192
Ophiodon elongatus, 465
organic carbon, 175, 414
organic loads, 122
organic matter, 122, 414
orthophosphate, 130
Oryzomys palustris, 107
osmoregulation, 102
otoliths, 199
otter trawls, 447
oxic layer, 157
oxycline, 265
oxygen demand, 113
oxygen depletion, 122, 248, 265

Pacific Coast, 49
palustrine wetlands, 489
Pamlico Sound, North Carolina, 481
Paracalanus crassirostris, 481
Paralabrax clathratus, 80
Paralichthys dentatus, 447
Paralichthys californicus, 80, 465
Paralichthys lethostigma, 447
Paraphrys vetulus, 465
parasites, 102
particle dynamics, 395
particle retention, 148
particulate organic carbon, 130
pathogenic bacteria, 345
Patuxent River, Maryland, 207
Perca flavescens, 447
Phanerodon furcatus, 465
phenols, 414
photon flux density, 57
photosynthesis, 57, 65
phytoplankton, 481
pigment transformations, 65
plankton, 74
plant propagation, 57
planted marsh, 1
Platichthys stellatus, 465
Plesiomonas, 345
Pleuronichthys decurrens, 465
Pleuronichthys ritteri, 80
Podon polyphemoides, 481
pollution effects, 318, 332
polychlorinated biphenyls, 279, 290, 299, 318
polycyclic aromatic hydrocarbons, 279, 290
Pomatomus saltatrix, 447
population trends, 224
Porichthys notatus, 465
Potamogeton pectinatus, 57
Potamogeton sp., 65
prey density, 207
primary production, 372
productivity, 180, 192, 481
protein, 430
Psettichthys melanostictus, 465
Pseudodiaptomus coronatus, 481
Pseudomonas, 345, 495
Pseudopleuronectes americanus, 299, 318, 440
pycnocline, 265
pyrene, 279

Quaternary sediments, 29
Quietula y-cauda, 80

radionuclides, 148
Rappahannock River, Virginia, 113
red drum, 74

Reithrodontomys fulvescens, 107
reoxygenation, 113
reproductive success, 318, 332
Rhacochilus toxotes, 465
Rhinobatos productus, 80
Rhithropanopeus harrisii, 102
rhizocephalan parasite, 102
Rhizophora racemosa, 49
rhodamine WT, 404
Rockefeller Refuge, Louisiana, 489
runoff, 122

Sago pondweed, 57
salinity, 38, 74, 102, 237, 265
salinity gradients, 192
Savannah River, Georgia, 192
Scheldt Estuary, 130
sciaenid eggs, 74
Sciaenops ocellatus, 74
Scirpus fluviatilis, 65
Scirpus validus, 192
Scorpaenichthys marmoratus, 465
sea level, 139
sea salts, 157
season cycle, 248
Sebastes auriculatus, 465
Sebastes mystinus, 465
Sebastes paucispinis, 465
Sebastes sp., 465
sediment accumulation, 148, 237
sediment fluxes, 237
sediment transport, 29, 361
sediments, 17, 29, 157, 167, 175, 414
Seriphus politus, 80, 465
seston, 130
sewage, 414
shallow inshore habitats, 465
silicate, 130
silver perch, 199
sludge, 224
small mammals, 107
smooth cordgrass, 180, 430
snap-trap capture, 107
softstem bulrush, 192
soil salinities, 49
soils, 17
soluble reactive phosphate, 382
South Creek, North Carolina, 447
Spartina alterniflora, 1, 17, 180, 430
Spartina patens, 17
spawning, 74
Spirinchus starksi, 465
spot, 94
spring-fed tidal canals, 404
stable carbon isotope, 414

Straits of Malacca, 38
stratification, 38
Streblospio benedicti, 1
striped bass, 207
Strongylura marina 447
sublethal abnormalities, 299
submerged aquatic vegetation, 65
subsidence, 139
sulfides, 17
sulfur cycle, 17
Sungai Merbok estuary, 38
suspended particulate material, 395
suspended sediment, 395
Susquehanna River, 148
Symphurus atricauda, 465
Syngnathus leptorhynchus, 80, 465
Syrinogodium filiforme, 74

terrestrially-derived organic matter, 414
Thalassia testudinum, 372
Thalassiosira pseudonana, 207
Thimble Shoal Channel, 29
Three Sisters Springs, Florida, 404
tidal cycle, 94
tidal freshwater bayou, 382
tidal sorting, 49
tide, 38
tide gauge records, 139
tide mixing, 113
Tijuana Estuary, 80
Tilapia sp., 447
Toms River, New Jersey, 157, 167
total nitrogen, 175, 224
total organic carbon, 175
total phosphorus, 224
total suspended sediment, 237
total suspended solids, 224, 382
trace elements, 279
trace metals, 279, 299
transmissometer, 395
Triakis semifasciata, 465
Trinectes maculatus, 447
tropical lagoon, 372
turnover rates, 130
two-layer box model, 237
Typha angustifolia, 65

Urolophus halleri, 465

Vallisneria americana, 65
Vibrio, 345

Wadden Sea, 130
Waquoit Bay, Massachusetts, 440
wastewater treatment, 224
water exchange, 404
water flux, 237
water level rise, 139
Wegener rings, 447
well-mixed lagoon, 372
wetlands, 1
winter flounder, 299, 318, 440

yolk sac, 318

zonation, 49

zooplankton, 481